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APPLICATION NO	D. F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/832,677		04/11/2001	Craig Rae Fowler	60,130-787	1880
26096	7590	02/13/2003			·
	•	EY & OLDS, P.C.	EXAMINER		
SUITE 35	-		PATEL, RAJ	NIKANT B	
BIRMINGHAM, MI 48009				ART UNIT	PAPER NUMBER
				2838	
				DATE MAIL ED: 02/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

# Application No. 09/832,677

Applicant(s)

Fowler et al.

Examiner

Office Action Summary

Rajnikant Patel

Art Unit 2838



The MAILING DATE of this communication appears on	the cover sheet with the correspondence address					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no						
mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply within the self NO period for reply is specified above, the maximum statutory period will apply and Failure to reply within the set or extended period for reply will, by statute, cause the self-any reply received by the Office later than three months after the mailing date of this earned petent term adjustment. See 37 CFR 1.704(b).	will expire SIX (6) MONTHS from the mailing date of this communication.					
Status	•					
1) Responsive to communication(s) filed on <u>Dec 9, 200</u>	<u> </u>					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action	n is non-final.					
3) Since this application is in condition for allowance exclosed in accordance with the practice under Ex parts	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.					
Disposition of Claims						
4) 💢 Claim(s) <u>1-20</u>	is/are pending in the application.					
4a) Of the above, claim(s)	is/are withdrawn from consideration.					
5) Claim(s)	is/are allowed.					
6) 🛱 Claim(s) <u>1-20</u>						
7)  Claim(s)	is/are objected to.					
8)	are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed onis/are a	accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to	this Office action.					
12) The oath or declaration is objected to by the Examine	er					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some* c) None of:						
1. Certified copies of the priority documents have	been received.					
2.   Certified copies of the priority documents have	been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
	Interview Summary (PTO-413) Paper No(s).					
**	Notice of Informal Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

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#### DETAILED ACTION

## Response to Arguments

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-6,8,10,12-13 and 16,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Young (U.S. Patent 4,745,348) in combination with Yamanaka et al. (U.S. Patent # 6,058,032).

Young discloses claimed invention a method for converting single phase alternating current to multiple phase alternating current for simultaneously powering multiple vehicle systems (figure 1) comprising the steps of: Splitting single phase alternating current into a plurality of separate paths

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including at least a first path, a second path, and third path; shifting the alternation current on the second path to be different than the phase of the path and shifting the phase of the alternating current on the third path to be different than first or second paths to create three phase alternating current power, and operating vehicle system with the three-phase alienating current power. However Young does not discloses the utilization of technique for a producing single phase alternating current from a direct current source with PWM. Yamanaka et al. teaches the utilization of similar technique for a producing single phase alternating current from a direct current source with PWM (figure 12 and column 1, line 50-70+)

In regards to claims 7,9,11,14-15,17-18 and 20. Young in combination with Yamanaka et al. discloses the claimed invention except for the utilization of technique of a vehicle battery power, thirty six volt battery power or power is utilize for vehicle devices. It would have been an obvious matter of design choice to utilize vehicle battery or thirty volt power or powering vehicle devices, since such a modification would have involved a mere change in the size of a component or utilize different suitable component is generally recognized as being within the level of ordinary skill in the art. In re rose, 105, USPQ 237 (CCPA 1955). Also it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Maeda (U.S. Patent #4,644,241), Ward (U.S. Patent # 4,520,303) and Moreira et al. (U.S. Patent # 6,051,952).

Rajnikant Patel

(Primary Examiner)

Fabruary 4, 2003